AXIS TX1204 Fiber Optic Cable Kit Single Mode
Protect your equipment in hazardous areas

This single mode fiber optic cable kit includes a halogen-free and flame-retardant breakout cable (5 m (16.4 ft) or 10 m (32.8 ft)), that can withstand mechanical stress. It also comes with an Ex d barrier gland which allows you to insert the breakout cable directly into flameproof enclosures, providing a safe and reliable solution for hazardous environments. The kit also includes an M25-to-M20 cable gland adapter. What's more, it complies with IEC EN 60079-14 requirements for cable installation and wiring in hazardous areas.

> **For use with AXIS TX1401**
> **Certified for ATEX, IECEx and INMETRO**
> **Halogen-free, flame-retardant cable**

AXIS TX1204 Fiber Optic Cable Kit Single Mode

Variants
AXIS TX1204 5 m
AXIS TX1204 10 m

Approvals

Approvals
Cable
EN 60079-14:2014, IEC 60079-14:2013, EN 187000,
IEC 60794, IEC 60754-1
Chemical characteristics
RoHS 2011/65/EU
IEC 60332-1 and EN 60332-3 (flame-retardant)

Certifications
Cable gland certifications
Model key: CMP-20-PXSS2K
ATEX
II 2G 1D, Ex db IIC Gb, Ex eb IIc Gb, Ex ta IIIC Da II 3G,
Ex nR IIC Gc, I M2 Ex db I Mb, Ex eb I Mb
Certificate: CML18ATEX1325X, CML18ATEX4317X
IECEx
Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da,
Ex db I Mb, Ex eb I Mb
Certificate: IECEx CML 18.0182X
cCSAUs
Class I, Div 1 and 2, Groups A,B,C, and D
Class II, Div 1 and 2, Groups E, F, and G
Class III, Div 1 and 2
Type 4X; Oil Resistance II
Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb
Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20,
AEx ta IIIC Da
cCSA
Class I, Div 1 and 2, Groups A,B,C, and D
Class II, Div 1 and 2, Groups E, F and G
Class III
Div 1 and 2
Type 4X; Oil Resistance II
Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Certificate: 2288626
cULus
Class I, Div 1 and 2, Groups A, B, C, and D
Class II, Div 1 and 2, Groups F and G
Certificate: 0) E201187, E161256
UL
Class I, Zone 1, AEx d IIC, AEx e II
Certificate: E253914
PESO
Certificate: P444949
INMETRO
Certificate: TÜV 12.2073X
KCs
Certificate: 14-GA4BO-0252X
CCC
Certificate: 2020322313003190
IA
Certificate: MS-XPL21962 21.0305X
-60°C < Tamb < +85°C

General

Supported products
Explosion-protected devices

Environment
UV-resistant, for indoor and outdoor use

Material

Cable gland
IP66/68–rated
Nickel-plated brass

Cable
Flame-retardant, low smoke material
Cable color: RAL 9005 (black)
Fiber color: blue, orange, green, brown

Design

Cable design
Type: A/J-V(ZN)H11Y 4 E 9/125/OS2
Number of fibers: 4 fibers of tight buffered cables with
aramid strain relief elements and LSZH single jacket
Strain relief: non-metallic (aramid yarns)

Mechanical characteristics
Cable bending radius during installation: 15 x outer
diameter
Cable bending radius after installation: 20 x outer
diameter
Maximum traction: 1000 N (long), 1800 N (short)
Maximum tranverse pressure : 2000 N
Crush resistance: 2000 N/10 cm
Fire load: 4.26 MJ/m

Optical characteristics
Damping: @1310nm < 0.4 (0.35) dB/km; @1550nm <
0.4 (0.21) dB/km
Chromatic dispersion: @1310nm < 3.0 ps/(nm-km);
@1550nm < 18 ps/(nm-km)
Zero-crossing of the dispersion: 1300-1322 Nm
Cut-off wavelength: <1260 N m
PMD: <0.1 ps/km
Mode field diameter: 9.0 ± 0.4 µm
Jacket diameter: 125 ± 1 µm
Diameter of the primary coating: 242 ± 7 µm

Connectors
Ex-d side: 4x LC SM connectors
Ex-e [op pr] side: open

Dimensions
Length: 5 m (16.4 ft) or 10 m (33 ft)
Cable: ø 7.8 $\pm$0.3 mm (0.3 $\pm$0.012 in)
Fiber: ø 2.0 mm (0.08 in)

Weight
5 m: 450 g (1.0 lb)
10 m: 750 g (1.7 lb)

Operating conditions
-40 °C to 70 °C (-40 °F to 158 °F)
During installation: 0 °C to 50 °C (32 °F to 122 °F)
Humidity 10–100% RH (condensing)

Storage conditions
-40 °C to 70 °C (-40 °F to 158 °F)
Humidity: 5–95% RH (non-condensing)

Box content
Single mode fiber optic cable, ex-d barrier cable gland
with washer, M20 to M25 adapter with washer,
installation guide, Declaration of Conformity

Warranty
Axis 5-year warranty, see *axis.com/warranty*

Sustainability

Substance control
PVC free, BFR/CFR free in accordance with JEDEC/ECA
Standard JS709
RoHS 2011/65/EU
REACH compliant

Environmental responsibility
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global
Compact, read more at *unglobalcompact.org*

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COMMUNICATIONS